

## पाइल फ्रेम — विशिष्टि

( पहला पुनरीक्षण )

## Pile Frame — Specification

( *First Revision* )

ICS 91.220

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## FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Construction Plant and Machinery Sectional Committee had been approved by the Mechanical Engineering Divisional Council.

This standard has been prepared to guide manufacturers and designers in production of pile frames to certain standardized parameters and to provide for the increase in the height of the frame in uniform steps.

Standard sizes of pile frames will assist the user in determining the type and size of pile frame that may procure and to plan his project accordingly. This will further assist in the replacement of pile frame in case one in use is damaged and cannot be used for want of spares. The designers and manufacturers may use their ingenuity to evolve improved designs (within the sizes given) which may prove more economical in the long run.

This standard was first published in 1972. This standard is being revised again to keep pace with the latest technological developments and international practices. Also in this revision, the standard has been brought into latest style and format of Indian Standards, and references to Indian Standards, wherever applicable have been updated. BIS certification marking clause has been modified to align with the revised *Bureau of Indian Standards Act, 2016*.

The composition of the Committee responsible for the formulation of this standard is listed in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (second revision)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard*

# PILE FRAME — SPECIFICATION

*( First Revision )*

## 1 SCOPE

This Indian Standard specifies the height of the pile frame and the minimum weight of the hammer and the pile that the frame shall be able to take safely.

## 2 REFERENCES

The standard listed below contains provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below:

IS No.	Title
IS 6427 : 1972	Glossary of terms relating to pile driving equipment

## 3 TERMINOLOGY

For the purpose of this standard, the definitions given in IS 6427 shall apply.

## 4 SIZE

**4.1** The size of the pile frame shall be designated by its height and the weight of the hammer and the pile it can take.

**4.1.1** The pile frame shall be as per the sizes given in Table 1.

## 5 EXTENSION PANELS

All pile frames shall be capable of being fixed with extension panels of 1.5 m, 3 m, and 4.5 m height without reduction in weight capacity.

## 6 PERFORMANCE

Pile frames with or without extension panels shall be capable of placing piles at the maximum backward rake 1 in 5 and the maximum forward rake 1 in 10.

## 7 MARKING

### 7.1 Rating Plate

Each pile shall have a rating plate firmly attached to some part which will not be easily removable. The plate shall have clearly marked on it the following information:

- a) Manufacturer's name and address;
- b) Month and year of manufacture;
- c) Machine name and model number;
- d) Pile size; and
- e) Weight of the pile.

### 7.2 BIS Certification Marking

The product(s) conforming to the requirements of this Standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

**Table 1 Sizes of Pile Frame**  
(Clause 4.1.1)

Sl No.	Size	Height of Pile Frame (m)	Weight of Hammer (Any Type), Max		Weight of Pile (Any Type), Max	
			(1)	(2)	(3)	(4)
i)	I	7.5			1.5	3
ii)	II	10.5			3	6
iii)	III	15			5	10
iv)	IV	20			6	12
v)	V	25			6	12

**ANNEX A**  
(Foreword)

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### Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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